

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510124

Luminaire Tested: **VERD-M-CA4-210-730-U-T2-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-210-730-U-T2-HSS
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 3000K, 960mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27052 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

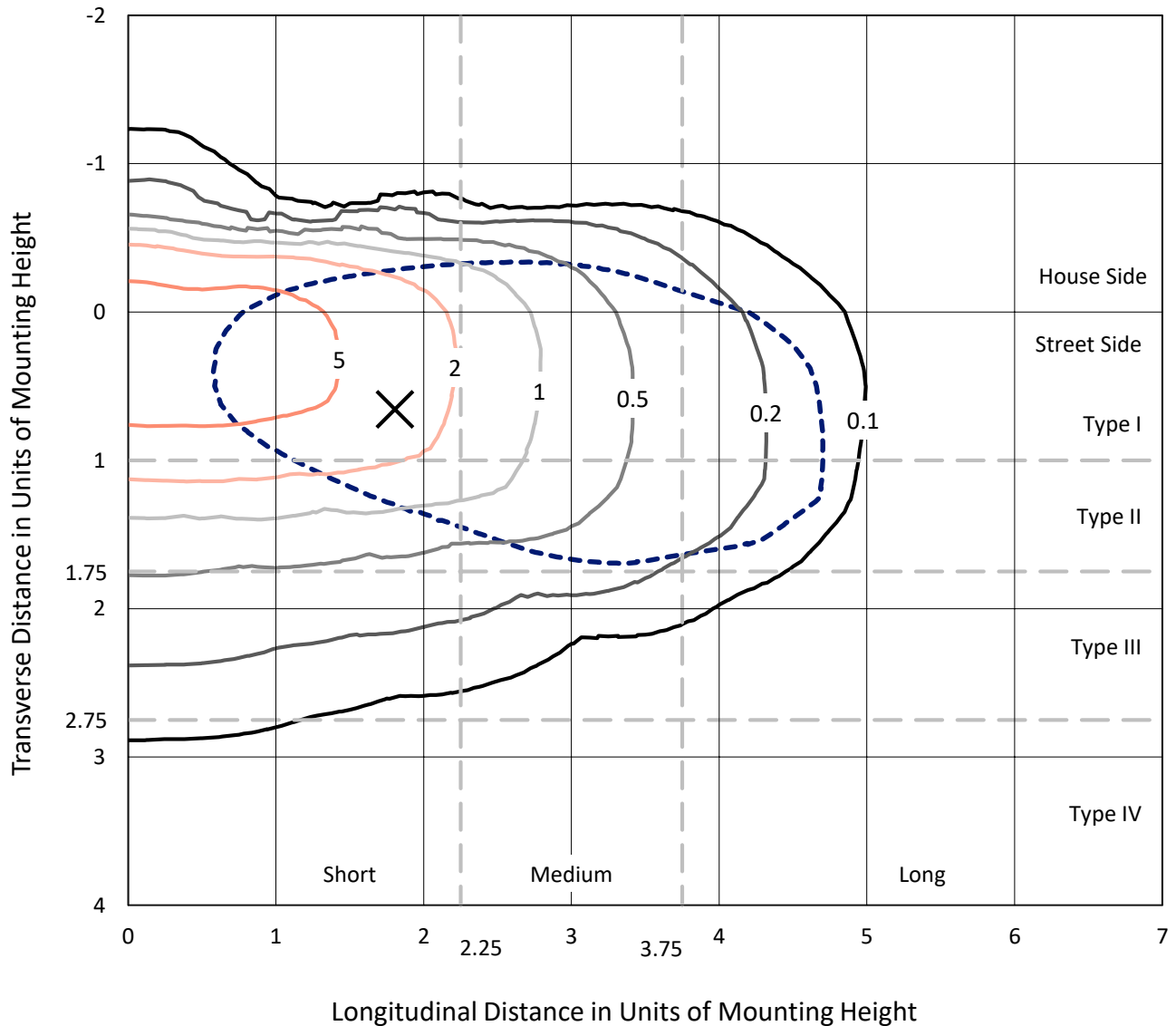
Input Watts (W): 213.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510124
 CATALOG NUMBER: VERD-M-CA4-210-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

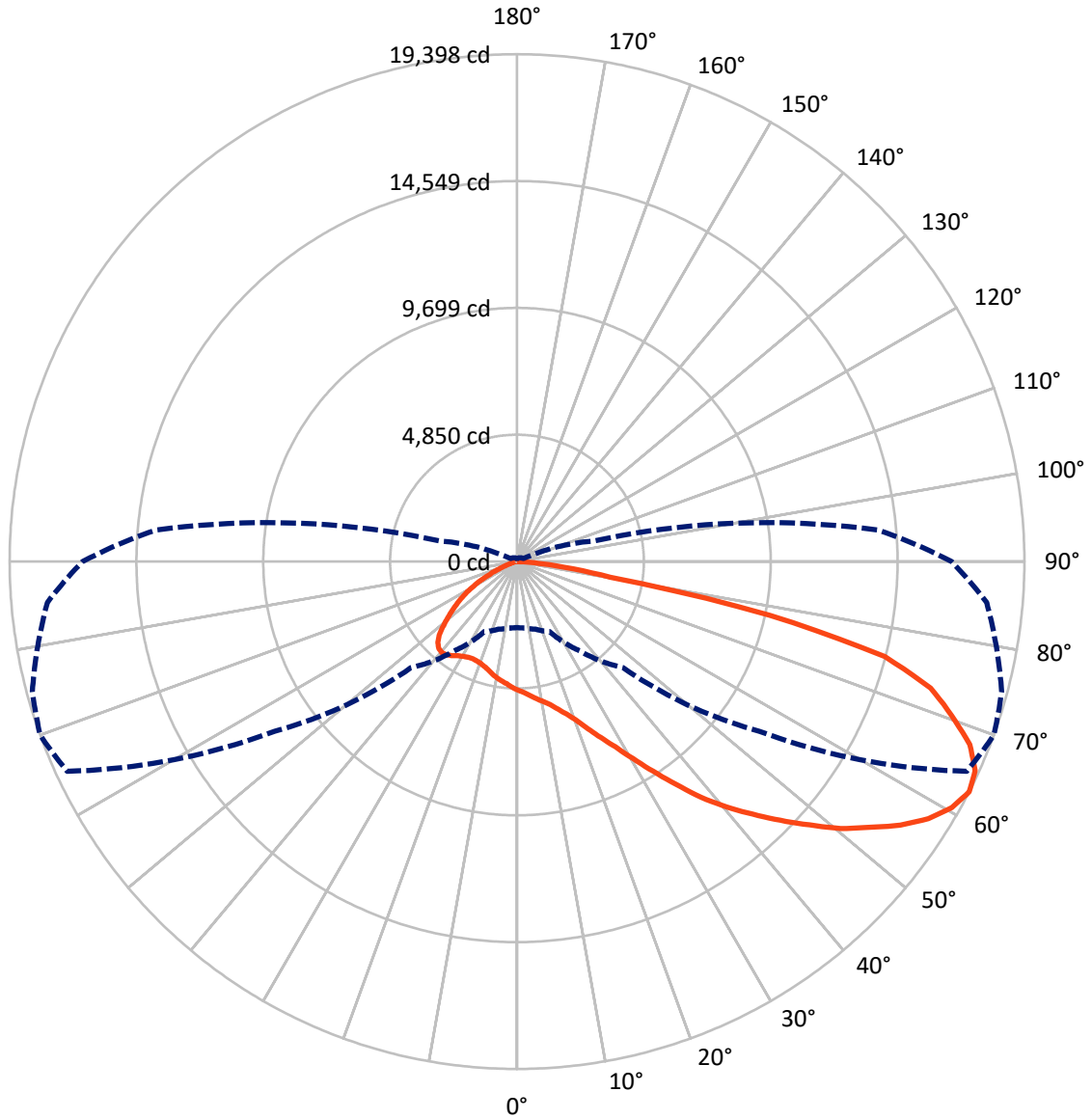
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P510124
CATALOG NUMBER: VERD-M-CA4-210-730-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P510124

CATALOG NUMBER: VERD-M-CA4-210-730-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5688.8	0.0	5688.8
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	21363.2	0.0	21363.2
	% Fixture	79.0	0.0	79.0
Total	Lumens	27052.0	0.0	27052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.9	1.7
10°-20°	1393.5	5.2
20°-30°	2362.3	8.7
30°-40°	3473.9	12.8
40°-50°	4626.2	17.1
50°-60°	5411.7	20.0
60°-70°	5442.8	20.1
70°-80°	3445.4	12.7
80°-90°	429.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	27052.0	100.0
0°-180°	27052.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510124

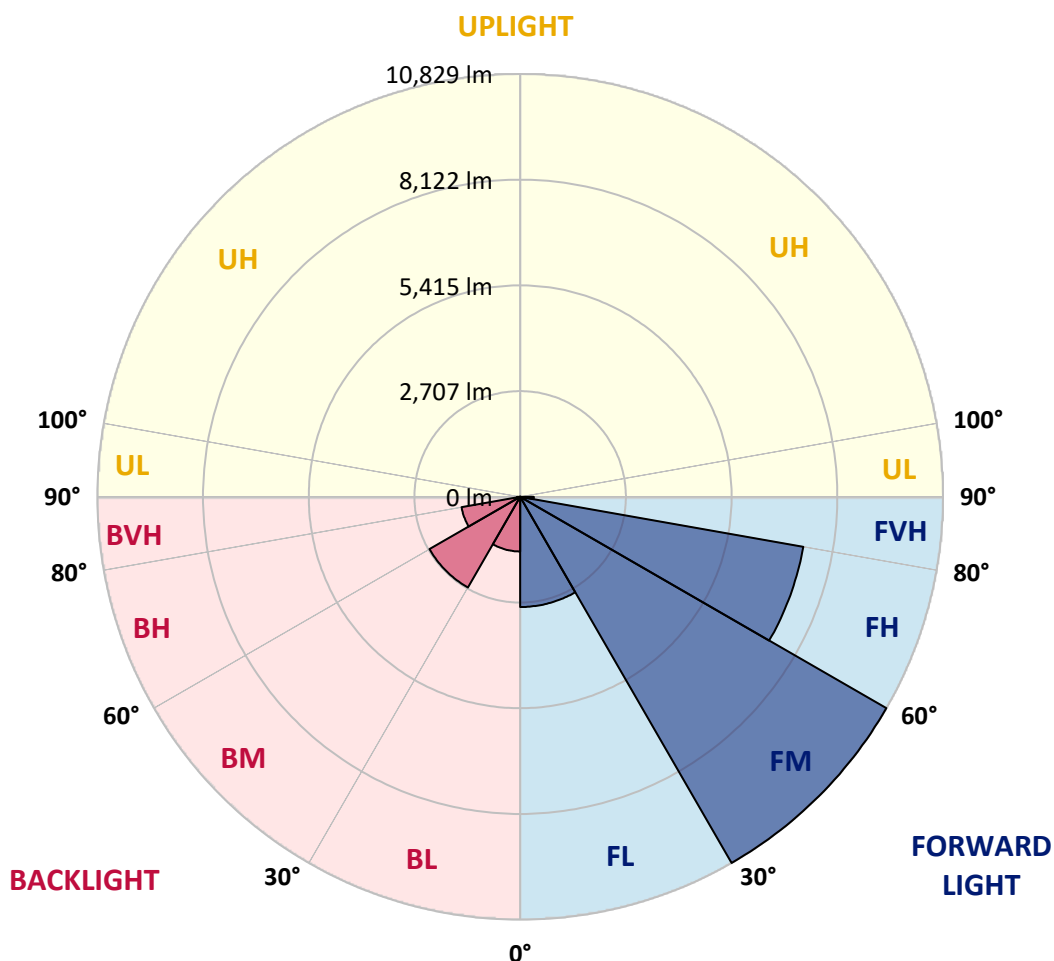
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2822.1	10.4			
FM (30°-60°)	10829.4	40.0			
FH (60°-80°)	7363.6	27.2			G3/7500
FVH (80°-90°)	348.1	1.3			G3/500
BL (0°-30°)	1400.6	5.2	B3/2500		
BM (30°-60°)	2682.3	9.9	B3/5000		
BH (60°-80°)	1524.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	81.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P510124

CATALOG NUMBER: VERD-M-CA4-210-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0
2.5°	5187.9	5233.3	5198.6	5185.2	5195.9	5142.4	5099.7	5038.2	5008.8	4987.5	4952.7
5°	5451.1	5525.9	5480.5	5452.4	5448.4	5350.9	5293.4	5209.3	5143.8	5086.3	4998.2
7.5°	5729.0	5773.1	5755.7	5723.6	5702.3	5583.3	5481.8	5362.9	5290.7	5214.6	5066.3
10°	5972.1	6025.6	6008.2	5950.8	5930.7	5809.1	5692.9	5531.2	5432.4	5337.5	5133.1
12.5°	6223.3	6283.4	6247.4	6189.9	6172.5	6049.6	5929.4	5733.0	5610.1	5503.2	5219.9
15°	6454.4	6509.2	6483.8	6418.4	6401.0	6296.8	6164.5	5981.5	5847.9	5706.3	5342.9
17.5°	6638.8	6693.6	6661.5	6630.8	6625.5	6522.6	6443.8	6256.7	6129.8	5937.4	5531.2
20°	6773.8	6829.9	6813.8	6828.5	6884.7	6808.5	6760.4	6602.7	6473.2	6264.7	5802.5
22.5°	6880.6	6952.8	7016.9	7046.3	7150.5	7145.2	7134.5	7041.0	6939.4	6723.0	6125.8
25°	6891.3	6974.2	7101.1	7238.7	7428.4	7519.3	7586.1	7571.4	7452.5	7238.7	6573.4
27.5°	6907.4	6992.9	7123.8	7360.3	7699.6	7912.1	8023.0	8091.1	8021.6	7878.7	7082.4
30°	6872.6	6960.8	7125.1	7427.1	7885.4	8279.5	8477.2	8729.7	8737.8	8617.5	7850.6
32.5°	6715.0	6831.2	7030.3	7435.1	8065.7	8662.9	8967.6	9452.5	9558.1	9468.6	8642.9
35°	6451.8	6557.3	6841.9	7364.3	8175.3	8982.2	9539.4	10295.6	10451.9	10446.6	9575.5
37.5°	6160.5	6267.4	6588.1	7197.3	8246.1	9266.8	10043.1	11131.9	11443.2	11377.8	10455.9
40°	5838.5	5950.8	6320.8	6987.5	8211.3	9520.7	10576.2	11942.9	12329.0	12337.1	11297.6
42.5°	5464.4	5556.6	5928.0	6697.6	8096.4	9707.7	11071.8	12796.7	13202.8	13180.1	12091.2
45°	5106.4	5202.6	5527.2	6248.7	7830.6	9811.9	11558.1	13661.1	14106.0	14033.8	12973.0
47.5°	4673.5	4811.1	5181.2	5871.9	7420.4	9803.9	11983.0	14545.6	15045.2	14986.4	13734.6
50°	3596.6	3678.1	4515.8	5483.1	6864.6	9616.9	12398.5	15414.0	16045.9	15931.0	14546.9
52.5°	3239.9	3313.4	3583.3	5016.9	6359.6	9212.0	12744.6	16408.0	16881.0	16791.4	15376.6
55°	3062.2	3102.3	3266.6	4137.7	5866.6	8554.7	12975.7	17291.1	17782.8	17585.1	16152.8
57.5°	2839.1	2888.5	3079.6	3533.8	5260.0	7546.0	12922.3	18087.4	18541.7	18238.4	16836.9
60°	2668.1	2705.5	2884.5	3181.1	4633.4	6501.2	12375.8	18869.0	19097.5	18798.2	17518.3
62.5°	2523.8	2545.2	2670.8	2952.7	4156.4	5738.3	11309.6	18973.2	19398.1	19181.6	18026.0
65°	2344.8	2350.1	2498.4	2718.9	3715.5	5280.1	10394.5	18438.8	19248.4	19176.3	18209.0
67.5°	2135.0	2145.7	2295.3	2463.7	3185.1	4792.4	8968.9	18151.5	18667.3	18621.8	17846.9
70°	1871.8	1893.2	2030.8	2159.1	2697.5	4207.2	7138.5	17015.9	17627.8	17561.0	16653.8
72.5°	1618.0	1605.9	1734.2	1861.1	2247.2	3512.5	5411.0	15061.3	16534.9	16470.8	15104.0
75°	1329.4	1321.4	1453.6	1573.9	1842.4	2837.8	3806.4	11138.6	14528.2	14725.9	13023.8
77.5°	819.0	825.7	901.8	982.0	1247.9	2120.3	2428.9	6196.6	9869.4	11703.8	10220.8
80°	593.2	593.2	649.3	697.4	825.7	1292.0	1209.1	2583.9	3607.3	5648.8	6374.3
82.5°	384.8	368.7	403.5	444.9	459.6	559.8	553.1	1296.0	1838.4	2212.5	2654.7
85°	200.4	221.8	133.6	188.4	199.1	185.7	191.1	607.9	816.3	1046.1	1151.7
87.5°	30.7	24.0	32.1	44.1	50.8	42.8	37.4	70.8	109.6	145.6	172.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510124

CATALOG NUMBER: VERD-M-CA4-210-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0	4918.0
2.5°	4930.0	4923.3	4861.9	4772.4	4698.9	4637.4	4597.3	4570.6	4600.0	4546.6	4539.9
5°	4943.4	4898.0	4764.3	4636.1	4537.2	4404.9	4315.4	4255.3	4279.4	4232.6	4213.9
7.5°	4979.4	4896.6	4712.2	4507.8	4320.8	4179.2	4041.5	3909.3	3889.2	3859.8	3861.2
10°	5011.5	4892.6	4652.1	4384.9	4167.1	3917.3	3751.6	3615.3	3584.6	3549.9	3532.5
12.5°	5062.3	4902.0	4577.3	4254.0	3962.7	3674.1	3495.1	3334.8	3304.0	3235.9	3221.2
15°	5163.8	4935.4	4503.8	4092.3	3732.9	3441.7	3210.5	3070.2	3014.1	2938.0	2936.6
17.5°	5296.1	5032.9	4466.4	3940.0	3537.9	3211.9	2967.4	2825.7	2730.9	2685.5	2673.4
20°	5484.5	5159.8	4465.1	3802.4	3334.8	2966.0	2685.5	2525.1	2445.0	2407.6	2384.8
22.5°	5774.4	5346.9	4489.1	3706.2	3130.4	2728.2	2449.0	2228.5	2096.3	1993.4	2008.1
25°	6135.1	5627.4	4543.9	3618.0	2952.7	2501.1	2151.0	1845.1	1608.6	1505.7	1513.7
27.5°	6593.4	5962.8	4685.5	3528.5	2750.9	2256.6	1762.2	1373.5	1194.4	1074.2	1083.5
30°	7179.9	6379.6	4871.2	3459.0	2563.9	1914.6	1326.7	1012.7	855.1	756.2	746.9
32.5°	7881.3	6983.5	5074.3	3412.3	2359.5	1487.0	956.6	742.8	589.2	533.1	541.1
35°	8749.8	7662.2	5384.3	3344.1	2009.4	1058.1	682.7	502.4	423.5	412.8	414.2
37.5°	9542.1	8357.0	5691.6	3229.2	1585.9	752.2	463.6	382.1	364.7	360.7	366.1
40°	10318.3	8990.3	5969.5	3062.2	1090.2	515.7	340.7	344.7	330.0	319.3	314.0
42.5°	11045.1	9600.8	6187.2	2754.9	745.5	340.7	301.9	314.0	311.3	289.9	280.6
45°	11829.4	10246.2	6307.5	2324.7	469.0	289.9	271.2	292.6	306.0	281.9	271.2
47.5°	12498.7	10875.4	6302.1	1781.0	318.0	273.9	255.2	273.9	289.9	272.6	263.2
50°	13271.0	11396.5	6131.1	1130.3	281.9	253.8	244.5	251.2	272.6	260.5	251.2
52.5°	14128.7	12109.9	5871.9	630.6	267.2	240.5	227.1	235.1	253.8	239.2	244.5
55°	14839.5	12701.8	5262.7	430.2	260.5	224.5	216.4	221.8	229.8	215.1	223.1
57.5°	15474.1	13190.8	4646.8	352.7	251.2	213.8	212.4	201.7	200.4	191.1	183.0
60°	16116.7	13576.9	3815.8	319.3	241.8	215.1	192.4	177.7	165.7	156.3	152.3
62.5°	16609.7	13844.1	3018.1	288.6	228.5	201.7	176.4	152.3	132.3	120.2	120.2
65°	16754.0	13725.2	2124.3	261.9	213.8	189.7	157.7	124.3	100.2	92.2	88.2
67.5°	16291.8	13042.5	1479.0	241.8	199.1	176.4	138.9	101.5	80.2	69.5	66.8
70°	15114.7	11900.2	872.4	213.8	180.4	153.6	126.9	82.8	65.5	54.8	52.1
72.5°	13375.2	10187.4	543.8	181.7	155.0	125.6	94.9	68.1	52.1	42.8	41.4
75°	11047.8	7941.5	355.4	140.3	122.9	98.9	72.1	54.8	45.4	36.1	33.4
77.5°	8859.3	5618.1	318.0	106.9	90.9	70.8	54.8	45.4	37.4	32.1	32.1
80°	5098.4	3206.5	260.5	73.5	56.1	53.4	42.8	37.4	34.7	30.7	29.4
82.5°	2505.1	1540.5	168.3	45.4	32.1	34.7	36.1	33.4	29.4	26.7	26.7
85°	863.1	513.0	68.1	29.4	21.4	21.4	22.7	24.0	22.7	21.4	21.4
87.5°	133.6	97.5	18.7	17.4	13.4	12.0	13.4	14.7	14.7	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)